

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/054692 A1**

(51) International Patent Classification<sup>7</sup>: **F16B 37/12**,  
37/04, 11/00, 5/01

(74) Agent: **COLES, Graham, Frederick**; Graham Coles &  
Co, 24 Seeleys Road, Beaconsfield, Buckinghamshire HP9  
1SZ (GB).

(21) International Application Number:  
PCT/GB2004/005069

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(22) International Filing Date: 3 December 2004 (03.12.2004)

(25) Filing Language: English

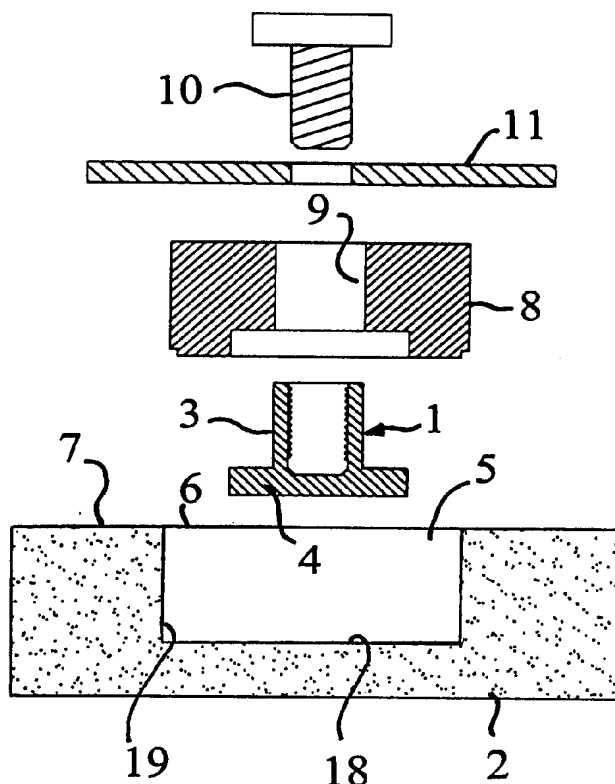
(26) Publication Language: English

(30) Priority Data:  
0328043.5 3 December 2003 (03.12.2003) GB

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: ANCHORING METHODS AND PRODUCTS OF SUCH METHODS



(57) Abstract: A fastener-fitting (1) for a bolt (10) is anchored to a mineral slab (2) by cutting a cavity (5) into the slab (2) and trapping an elongate flanged-base (4) of the fastener (1) in the cavity (5) under a plug-element (8) of the slab-mineral. The flanged-base (4) fits within a conformal recess (15) in the underside (14) of the plug-element (8) to hold the fastener (1) against turning, with an internally-threaded tubular portion (3) of the fastener (1) extending through a bore (9) of the plug-element (8) for receiving the bolt (10) clamping an item (11) to the slab (2). The plug-element (8) is retained in the cavity (5) by adhesive, and has channels (20, 21) for dispersal of surplus adhesive from the cavity (5).



FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*